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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/706,676	11/12/2003	Ofir Zohar	ASSIA 20.741	8317	
26304 7	590 04/05/2006	EXAMINER			
KATTEN MUCHIN ROSENMAN LLP			MCFADDEN,	MCFADDEN, MICHAEL B	
575 MADISON AVENUE NEW YORK, NY 10022-2585			ART UNIT	PAPER NUMBER	
			2188		
			DATE MAILED: 04/05/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	A 11 41 31	A - P				
	Application No.	Applicant(s)				
	10/706,676	ZOHAR ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael B. McFadden	2188				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	 Note that the mailing date of this communication. U.S.C. § 133). 				
Status						
1) Responsive to communication(s) filed on 12 No	Responsive to communication(s) filed on <u>12 November 2003</u> .					
,-	·					
• •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 12 November 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	re: a) \square accepted or b) \square object drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)				
 2) Notice of Preferences Orice (170-052) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/12/2003. 	Paper No(s)/Mail Da					

Art Unit: 2188

DETAILED ACTION

1. The instant application having Application No. 10/706,676 has a total of 18 claims pending in the application; there are 2 independent claims and 16 dependent claims, all of which are ready for examination by the examiner.

I. INFORMATION CONCERNING OATH/DECLARATION

Oath/Declaration

2. The applicant's oath/declaration has been reviewed by the examiner and is found to conform to the requirements prescribed in 37 C.F.R. ' 1.63.

III. INFORMATION CONCERNING DRAWINGS

Drawings

3. The applicant's drawings submitted 12 November 2003 are acceptable for examination purposes.

IV. ACKNOWLEDGEMENT OF REFERENCES CITED BY APPLICANT

Information Disclosure Statement

4. As required by M.P.E.P. '609 (C), the applicant's submission of the Information Disclosure Statement dated 12 November 2003 is acknowledged by the examiner and the cited references have been considered in the examination of the claims now pending. As required by M.P.E.P. '609 C(2), a copy of the PTOL-1449 initialed and dated by the examiner is attached to the instant office action.

Art Unit: 2188

V. OBJECTIONS TO THE APPLICATION

Abstract

5. The abstract of the disclosure is objected to because of grammatical errors. In line 3 of the abstract the phrase "to receive commands and responsively to" is grammatically incorrect. The Examiner suggests, "to receive commands and **respond** to" as a possible correction. Correction is required. See MPEP § 608.01(b).

Claims

6. Claim 1 is objected to because of the following informalities: Line three possesses a grammatical mistake. The phrase "to receive commands and responsively to" is grammatically incorrect. The Examiner suggests, "to receive commands and respond to" as a possible correction. Appropriate correction is required.

VII. REJECTIONS BASED ON PRIOR ART

Claim Rejections - 35 USC ' 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2188

8. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Tawil (US Patent No. 6,421,723).

- 9. Regarding Claims 1, 2, 3, 10, 11 and 12, Tawil discloses a storage system, comprising: one or more data storage logical units (LUs) (Figure 1, Elements 14, 16, 18, and 20) comprising respective physical media, the one or more LUs being adapted to receive commands and responsively to the commands to store and recall data; and a plurality of ports, each port being adapted to maintain a respective LU command queue (Figure 1, Element 26 and 22) for each of the LUs, such that upon receiving a command directed to one of the LUs, the port places the received command in the respective LU command queue, converts the received command to one or more converted commands at least some of which are directed to the physical media of the one of the LUs, and conveys the at least some converted commands to the physical media in an order determined by the respective LU command queue. (Column 4, Lines 20-25)
- 10. **Regarding Claims 4 and 13,** Tawil discloses the storage system according to claim 1, wherein the command comprises a request according to a small computer system interface (SCSI) protocol, and wherein the storage system is operative according to the SCSI protocol. **(Column 1, Lines 24-28)**
- 11. **Regarding Claims 5 and 14,** Tawil discloses the storage system according to claim 1, wherein each of the ports comprises a respective central processing unit (CPU) which operates each of the ports substantially independently.

Application/Control Number: 10/706,676

Art Unit: 2188

The use of a CPU is inherent. It is disclosed that the queues (Figure 1, Elements 26 and 22) both receive and execute commands. (Column 4, Lines 20-25) Therefore the execution of commands must include a processing unit.

12. Regarding Claims 6 and 15, Tawil discloses the storage system according to claim 1, wherein the command is comprised in one of one or more strings of commands, each command of each string being directed via one of the ports to a respective one of the LUs, and comprising a coupling which: receives the commands comprised in the one or more strings, sorts the commands according to the ports via which the commands are directed, and conveys the commands to the ports to which the commands are directed. (Column 4, Lines 1-3)

The coupling that is disclosed functions is the same manner as a hub. Tawil discloses the use of a hub in the storage area network.

13. Regarding Claims 7, 8, 16 and 17, Tawil discloses the storage system according to claim 1, wherein the received command comprises a write command to store a data string from a host to the physical media, and wherein the one or more converted commands comprise instructions to the host to convey the data string to the physical media via the port, and wherein the port is adapted to convey the instructions to the host and wherein the received command comprises a read command from a host to read a data string from the physical media, and wherein the one or more converted commands comprise instructions to convey the data string via the port to the host. (Column 4, Lines 20-25)

Art Unit: 2188

14. Regarding Claims 9 and 18, Tawil discloses the storage system according to claim 1, wherein the physical media comprise the data, and wherein the port is adapted to track changes of location of the data within the physical media.

(Column 4, Lines 20-25) If the manipulated in data storage areas then it must also be keeping track of where the data is located.

IX. CLOSING COMMENTS

Conclusion

a. STATUS OF CLAIMS IN THE APPLICATION

15. The following is a summary of the treatment and status of all claims in the application as recommended by M.P.E.P. ' 707.07(i):

a(4). CLAIMS REJECTED IN THE APPLICATION

16. Per the instant office action, claims 1-18 have received a first action on the merits and are subject of a first action non-final.

b. DIRECTION OF FUTURE CORRESPONDENCES

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael B. McFadden whose telephone number is (571)272-8013. The examiner can normally be reached on Monday-Friday 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Manorama Padmanabhan can be reached on (571)272-4210. The fax

Art Unit: 2188

phone number for the organization where this application or proceeding is assigned is 571-273-8300.

IMPORTANT NOTE

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MBM 03/30/2006

> MANO PADMANABHAN SUPERVISORY PATENT EXAMINER

Mans Ramanashan 3/31/06